Scientific and Technical Information Center

SEARCH REQUEST FORM

Requester's Full Name:	RK BERCH Exa	nminer # : <u>59193</u> Dat	e: 04 1 24/06
Art Unit: 1624 Phone N Location (Bldg/Room#): 5 CO1 (M	Tumber: 2- 0663	Serial Number:	PAPER DISK
LOCATION (Bidg/ROOM#): 3 CO1 (10 **********************************	*******	*******	******
To ensure an efficient and quality search, plo	ease attach a copy of the cover sho	eet, claims, and abstract or fill out t	he following:
Title of Invention:			
Inventors (please provide full names): _			
Earliest Priority Date:			
Search Topic: Please provide a detailed statement of the sear elected species or structures, keywords, synony Define any terms that may have a special mean	ch topic, and describe as specifical oms, acronyms, and registry numbe ning. Give examples or relevant ci	ers, and combine with the concept or tations, authors, etc., if known.	utility of the invention.
For Sequence Searches Only Please includ appropriate serial number.	e all pertinent information (parent	, child, divisional, or issued patent n	umbers) along with the
compound mu	JO) who have the	is fragment	13124 13124
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STAFF USE ONLY	Type of Search	Vendors and cost where a	
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Searcher Location:	Structure (#)	Westlaw	WWW/Internet
Date Searcher Picked Up:	Bibliographic	In-house sequence sys	tems
Date Completed:	Litigation	CommercialOligon InterferenceSPDI	Encode/Transl
Searcher Prep & Review Time:	Fulltext	Other (specify))

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L2

(FILE 'HOME' ENTERED AT 09:31:32 ON 02 FEB 2006)

FILE 'REGISTRY' ENTERED AT 09:31:42 ON 02 FEB 2006

L1 STR

0 SEA SSS SAM L1

L3 12 SEA SSS FUL L1

FILE 'HCAPLUS' ENTERED AT 09:33:51 ON 02 FEB 2006

L4 6 SEA ABB=ON PLU=ON L3

FILE 'BEILSTEIN' ENTERED AT 09:34:05 ON 02 FEB 2006

L5 1 SEA SSS FUL L1

L6 1 SEA ABB=ON PLU=ON L5/COM

FILE 'MARPAT' ENTERED AT 09:34:38 ON 02 FEB 2006

L7 STR L1

L8 0 SEA SSS SAM L7

L9 3 SEA SSS FUL L7

L10 2 SEA ABB=ON PLU=ON L9/COM

L11 0 SEA ABB=ON PLU=ON L10 NOT L4

FILE HOME

FILE REGISTRY

Property values tagged with IC are from the ${\tt ZIC/VINITI}$ data file provided by ${\tt InfoChem.}$

STRUCTURE FILE UPDATES: 31 JAN 2006 HIGHEST RN 873191-05-0 DICTIONARY FILE UPDATES: 31 JAN 2006 HIGHEST RN 873191-05-0

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

Please note that search-term pricing does apply when conducting ${\tt SmartSELECT}$ searches.

Structure search iteration limits have been increased. See HELP SLIMITS for details.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

FILE HCAPLUS

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FILE COVERS 1907 - 2 Feb 2006 VOL 144 ISS 6 FILE LAST UPDATED: 1 Feb 2006 (20060201/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

FILE BEILSTEIN
FILE LAST UPDATED ON JANUARY 17, 2006

FILE COVERS 1771 TO 2005.
FILE CONTAINS 9,428,406 SUBSTANCES

>>>PLEASE NOTE: Reaction Data and substance data are stored in separate documents and can not be searched together in one query. Reaction data for BEILSTEIN compounds may be displayed immediately with the display codes PRE (preparations) and REA (reactions). A substance answer set retrieved after the search for a chemical name, a compounds with available reaction information by combining with PRE/FA, REA/FA or more generally with RX/FA. The BEILSTEIN Registry Number (BRN) is the link between a BEILSTEIN compound and belonging reactions. For mo detailed reaction searches BRNs can be searched as reaction partner BRNs Reactant BRN (RX.RBRN) or Product BRN (RX.PBRN).<<<

>>> FOR SEARCHING PREPARATIONS SEE HELP PRE <<<

- * PLEASE NOTE THAT THERE ARE NO FORMATS FREE OF COST.
- * SET NOTICE FEATURE: THE COST ESTIMATES CALCULATED FOR SET NOTICE
- * ARE BASED ON THE HIGHEST PRICE CATEGORY. THEREFORE; THESE
- * ESTIMATES MAY NOT REFLECT THE ACTUAL COSTS.
- * FOR PRICE INFORMATION SEE HELP COST

- * PATENT NUMBERS (PN) AND BABS ACCESSION NUMBERS (BABSAN) CAN NOW BE SEARCHED, SELECTED AND TRANSFERRED.
- * NEW DISPLAY FORMATS ALLREF, ALLP AND BABSAN SHOW ALL REFERENCES, ALL PATENT REFERENCES, OR ALL BABS ACCESSION NUMBERS FOR A COMPOUND AT A GLANCE.

FILE MARPAT

FILE CONTENT: 1969-PRESENT (VOL 144 ISS 5 (20060127/ED)

SOME MARPAT RECORDS ARE DERIVED FROM INPI DATA FOR 1969-1987

MOST RECENT CITATIONS FOR PATENTS FROM FIVE MAJOR ISSUING AGENCIES (COVERAGE TO THESE DATES IS NOT COMPLETE):

US 6962795 08 NOV 2005
DE 1020040544 17 NOV 2005
EP 1595877 16 NOV 2005
JP 2005328067 24 NOV 2005
WO 2005112644 01 DEC 2005

Expanded G-group definition display now available.

New CAS Information Use Policies, enter HELP USAGETERMS for details.

=> fil reg FILE 'REGISTRY' ENTERED AT 09:44:03 ON 02 FEB 2006 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2006 American Chemical Society (ACS)

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STRUCTURE FILE UPDATES: 31 JAN 2006 HIGHEST RN 873191-05-0 DICTIONARY FILE UPDATES: 31 JAN 2006 HIGHEST RN 873191-05-0

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

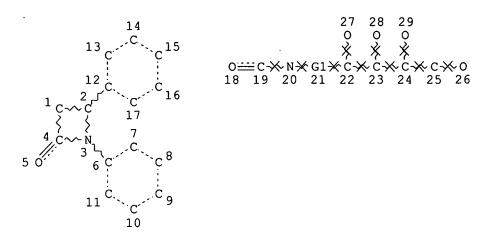
Please note that search-term pricing does apply when conducting SmartSELECT searches.

Structure search iteration limits have been increased. See HELP SLIMITS for details.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

=> d que stat 13 L1 STR



REP G1=(1-3) C NODE ATTRIBUTES: DEFAULT MLEVEL IS ATOM DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES: RING(S) ARE ISOLATED OR EMBEDDED NUMBER OF NODES IS 29

STEREO ATTRIBUTES: NONE

L3 12 SEA FILE=REGISTRY SSS FUL L1

100.0% PROCESSED 5319 ITERATIONS

SEARCH TIME: 00.00.01

12 ANSWERS

=> fil hcap FILE 'HCAPLUS' ENTERED AT 09:44:20 ON 02 FEB 2006 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2006 AMERICAN CHEMICAL SOCIETY (ACS)

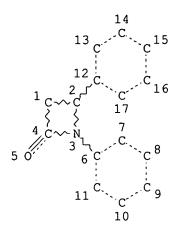
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FILE COVERS 1907 - 2 Feb 2006 VOL 144 ISS 6 FILE LAST UPDATED: 1 Feb 2006 (20060201/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d que stat 14 L1 STR



27 28 29 0 0 0 * * * 0 == C * N * G1 * C * C * C * C * O 18 19 20 21 22 23 24 25 26

REP G1=(1-3) C NODE ATTRIBUTES: DEFAULT MLEVEL IS ATOM

DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED NUMBER OF NODES IS 29

STEREO ATTRIBUTES: NONE

L3 12 SEA FILE=REGISTRY SSS FUL L1

L4 6 SEA FILE=HCAPLUS ABB=ON PLU=ON L3

=> d 14 ibib abs hitstr 1-6

L4 ANSWER 1 OF 6 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2005:588892 HCAPLUS

DOCUMENT NUMBER: 143:133694

TITLE: Preparation of diphenylazetidinone amino acid

derivatives having cholesterol absorption inhibitory

activity

INVENTOR(S): Alenfalk, Susanne; Dahlstroem, Mikael; Hunegnaw, Fana;

Karlsson, Staffan; Lemurell, Malin; Lindqvist, Ann-Margret; Skjaeret, Tore; Starke, Ingemar

PATENT ASSIGNEE(S): Astrazeneca AB, Swed.

SOURCE:

Astrazeneca AB, Swed. PCT Int. Appl., 189 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent English

LANGUAGE: E FAMILY ACC. NUM. COUNT: 1

PAT	ENT :	NO.			KIN	D	DATE		i	APPL:	ICAT:	ION 1	NO.		D	ATE	
wo	2005	0614	52		A1	_	2005	0707		WO 2	004-	SE19	 60		2	0041	221
	W:	ΑE,	AG,	AL,	AM,	AT,	ΑU,	ΑZ,	BA,	BB,	BG,	BR,	BW,	BY,	ΒZ,	CA,	CH,
		CN,	co,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	EG,	ES,	FI,	GB,	GD,
		GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	KP,	KR,	ΚZ,	LC,
		LK.	LR.	LS.	LT.	LU.	LV.	MA.	MD.	MG.	MK.	MN.	MW.	MX.	MZ.	NA.	NI,

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NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO:

GB 2003-29780 A 20031223 SE 2004-1907 A 20040721 SE 2004-2785
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OTHER SOURCE(S):

MARPAT 143:133694

GI

OH S
$$\mathbb{R}^4$$
 \mathbb{R}^4

The invention relates to diphenylazetidinones I [R1, R2, R5 are independently H, (un)substituted alkyl, cycloalkyl or aryl; R3 is H, alkyl, halo, alkoxy or alkylthio; R4 is H, alkyl, halo or alkoxy; R6 is H, alkyl or arylalkyl; or R2 may form a ring with R5 or R6], or their pharmaceutically-acceptable salts, solvates, and prodrugs, and their use as cholesterol absorption inhibitors for the treatment of hyperlipidemia. Thus, 2-azetidinone I [R3, R4 = F; NHCHR1CONR6CR2R5CO2H = Gly-L-Ser-OH (R-configuration at 3- and 4-positions of the azetidine ring)], prepared by peptide coupling and LiAlH4 reduction of the benzoyl oxo group, showed 87% inhibition of 14C-cholesterol absorption.

IT 858103-64-7P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of diphenylazetidinone amino acid derivs. having cholesterol absorption inhibitory activity)

RN 858103-64-7 HCAPLUS

CN D-Gluconic acid, 2-deoxy-2-[[[[[4-[(2R,3R)-1-(4-fluorophenyl)-3-[[2-(4-fluorophenyl)-2-hydroxyethyl]thio]-4-oxo-2-azetidinyl]phenoxy]acetyl]amino]acetyl]amino]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

PAGE 1-B

__ F

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 6 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

2004:857559 HCAPLUS

DOCUMENT NUMBER:

141:314568

TITLE:

Novel diphenyl azetidinone with improved physiological characteristics, corresponding production method,

medicaments containing said compound and use of the

latter

INVENTOR(S):

Jaehne, Gerhard; Frick, Wendelin; Lindenschmidt, Andreas; Flohr, Stefanie; Heuer, Hubert; Schaefer, Hans-Ludwig; Kramer, Werner; Galia, Eric; Glombik,

Heiner

PATENT ASSIGNEE(S):

Aventis Pharma Deutschland GmbH, Germany

SOURCE:

PCT Int. Appl., 36 pp.

CODEN: PIXXD2
Patent

DOCUMENT TYPE:

Patent

LANGUAGE:

German

FAMILY ACC. NUM. COUNT:

PATENT NO.					KIN	D 1	DATE	E APPLICATION NO.							DATE			
WO	 2004	0876!	55		A1 20041014			Ţ	WO 2	004-		20040316						
	W:	ΑE,	AG,	AL,	AM,	AT,	ΑU,	ΑZ,	BA,	BB,	BG,	BR,	BW,	BY,	BZ,	CA,	CH,	
		CN,	co,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	EG,	ES,	FI,	GB,	GD,	
		GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	ΚE,	KG,	ΚP,	KR,	ΚZ,	LC,	
		LK,	LR,	LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	ΜZ,	NΑ,	ΝI,	
		NO,	ΝZ,	OM,	PG,	PH,	PL,	PT,	RO,	RU,	SC,	SD,	SE,	SG,	SK,	SL,	SY,	
		ТJ,	TM,	TN,	TR,	TT,	ΤZ,	UA,	UG,	US,	UZ,	VC,	VN,	YU,	ZA,	ZM,	zw	
	RW:	BW,	GH,	GM,	ΚE,	LS,	MW,	MZ,	SD,	SL,	SZ,	ΤZ,	UG,	ZM,	ZW,	AM,	ΑZ,	
		BY,	KG,	ΚZ,	MD,	RU,	ТJ,	TM,	AT,	BE,	ВG,	CH,	CY,	CZ,	DE,	DK,	EE,	
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		SK,	TR,	BF,	ВJ,	CF,	CG,	CI,	CM,	GA,	GN,	GQ,	GW,	ML,	MR,	ΝE,	SN,	
		TD.	ТG															

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DE 10314610
                                20041104
                          A1
                                            DE 2003-10314610
                                                                    20030401
                                            CA 2004-2520689
                                                                    20040316
    CA 2520689
                          AΑ
                                20041014
                          A1
                                20060111
                                            EP 2004-720854
    EP 1613589
                                                                    20040316
             AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK
                                                                    20040331
     US 2005020563
                          A1
                                20050127
                                             US 2004-813954
PRIORITY APPLN. INFO.:
                                                                    20030401
                                             DE 2003-10314610
                                                                 Α
                                            US 2003-494456P
                                                                 Р
                                                                    20030811
                                            WO 2004-EP2690
                                                                 W 20040316
```

OTHER SOURCE(S):

MARPAT 141:314568

GT

AB The invention relates to a novel di-Ph azetidinone (I) and its physiol. compatible salts, to a method for its production, to medicaments containing said

compound and to the use of the latter. Said compound is suitable for use for example as a hypolipidemic agent. Thus, dodecanedioic acid was reacted with thionyl chloride followed by MeOH to give a monomethyl ester, which was then reacted with glucamine and deesterified to give the monoamide intermediate (II). II was reacted with the previously known (2S,3R)-1-(4-aminomethylphenyl)-3-[3-(4-fluorophenyl)-3-hydroxypropyl]-4-(4-methoxyphenyl)azetidin-2-one to give I in 32% yield. In in vitro tests on mice, I had ED50 0.005 mg/mouse for 50% reduction of liver 14C-labeled cholesterol. In solubility tests, compared to a similar reference compound, I

had

better solubility in water, at pH's 1.2, 4.5, 6.8, and 8.0, and in both fasted-(28 μ g/mL vs 5) and fed-state simulating intestinal fluids (454 μ g/mL vs 18) (FaSSIF and FeSSIF).

IT 768394-99-6P

RL: BSU (Biological study, unclassified); SPN (Synthetic preparation); THU

(Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of 1,2-diphenylazetidinone alditol derivs. for use as hypolipidemics for treatment of hyperlipidemia)

RN

768394-99-6 HCAPLUS D-Glucitol, 1-deoxy-1-[[12-[[[4-[(2S,3R)-3-[(3S)-3-(4-fluorophenyl)-3-CN hydroxypropyl]-2-(4-methoxyphenyl)-4-oxo-1-azetidinyl]phenyl]methyl]amino]-1,12-dioxododecyl]amino]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-B

ΙT 768394-97-4P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of 1,2-diphenylazetidinone alditol derivs. for use as hypolipidemics for treatment of hyperlipidemia)

RN 768394-97-4 HCAPLUS

D-Glucitol, 1-deoxy-1-[[12-[[4-[(2S,3R)-3-[(3S)-3-(4-fluorophenyl)-3-[(3S)-3-(4-fluorophenyl)]]CN hydroxypropyl]-2-(4-methoxyphenyl)-4-oxo-1-azetidinyl]phenyl]methyl]amino]-1,12-dioxododecyl]amino]-, 2,3,4,5,6-pentaacetate (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

$$\begin{array}{c} \text{MeO} \\ \text{F} \\ \text{OH} \end{array}$$

PAGE 1-B

THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS 2 REFERENCE COUNT: RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 3 OF 6 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

2004:41434 HCAPLUS

DOCUMENT NUMBER:

140:111687

TITLE:

Preparation of diphenylazetidinone peptide derivatives

for treating disorders of lipid metabolism

INVENTOR(S):

Starke, Ingemar; Dahlstrom, Mikael Ulf Johan;

Lindqvist, Ann-Margret; Nordberg, Mats Peter; Skjaret,

PATENT ASSIGNEE(S):

Tore; Lemurell, Malin Anita Astrazeneca AB, Swed.; Astrazeneca UK Limited

SOURCE:

PCT Int. Appl., 134 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT: 1

					KIND DATE					APPL	ICAT		DATE					
	2004				A1	_	2004	0115		WO 2003-GB2811						20030701		
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CA 2491789					AA 20040115			4	CA 2003-2491789						20030701			
BR 2003012280					Α		2005	0412		BR 2	003-	1228	0		2	0030	701	

EP 1521742 20050413 EP 2003-762763 20030701 **A**1 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK JP 2006501184 Т2 20060112 JP 2004-518920 20030701 US 2005239766 A1 20051027 US 2004-519897 20041231 NO 2005-16 NO 2005000016 Α 20050301 20050103 GB 2002-15579 A 20020705 PRIORITY APPLN. INFO.: WO 2003-GB2811 W 20030701

OTHER SOURCE(S):

MARPAT 140:111687

GI

$$A-X$$
 Y
 R^2
 R^1

AB Azetidinone derivs. I [A is (un)substituted Ph or thienyl; X, Y are (un)substituted methylene, O, NH, alkylimino, S, SO, or SO2; R1, R2 are H, halo, nitro, cyano, etc.; R3 is (CHR4)1-2CONR5CR6R7(CHR8)0-2R9, where R4, R6, R7, R8 are H, (un)substituted alkyl, carbocyclyl, or heterocyclyl or R6R7 is alkylene; R5 is H or alkyl; R9 is H, halo, nitro, amino, carbamoyl, sulfamoyl, hydroxyaminocarbonyl, alk(en)(yn)yl, alkoxy, alkoxycarbonyl, alkylamino, etc.] or their pharmaceutically-acceptable salts or prodrugs were prepared for use as cholesterol absorption inhibitors for the treatment of hyperlipidemia. Thus, 1-(4-fluorophenyl)-3-[3-(4-fluorophenyl)-3-hydroxypropyl]-4-(4-carboxymethoxyphenyl)azetidin-2-one and tert-Bu N-[(2R)-2-amino-2-phenylethanoyl]glycinate were prepared and reacted to form the carboxamide.

IT 646523-74-2P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of diphenylazetidinone peptide derivs. for treating disorders of lipid metabolism)

RN 646523-74-2 HCAPLUS

CN D-Glucitol, 1-deoxy-1-[[[4-[1-(4-fluorophenyl)-3-[3-(4-fluorophenyl)-3-hydroxypropyl]-4-oxo-2-azetidinyl]phenoxy]acetyl]amino]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

REFERENCE COUNT:

5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 4 OF 6 HCAPLUS COPYRIGHT 2006 ACS on STN L4

ACCESSION NUMBER: DOCUMENT NUMBER:

2004:2850 HCAPLUS 140:77013

TITLE:

Preparation of diphenylazetidinones for the treatment

of hyperlipidemia, arteriosclerosis and

hypercholesterolemia

INVENTOR(S):

Jaehne, Gerhard; Frick, Wendelin; Flohr, Stefanie; Lindenschmidt, Andreas; Glombik, Heiner; Kramer, Werner; Heuer, Hubert; Schaefer, Hans-Ludwig

Aventis Pharma Deutschland G.m.b.H., Germany

PATENT ASSIGNEE(S): SOURCE:

PCT Int. Appl., 74 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

German

FAMILY ACC. NUM. COUNT:

PAT	PATENT NO.					KIND DATE					ICAT	ION I	DATE				
WO	2004	0008	04		A1		2003	1231		WO 2	003-1	EP58	15		2	0030	604
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										US 2	002-	4119	84P		P 2	0020	919

WO 2003-EP5815 W 20030604

OTHER SOURCE(S):

MARPAT 140:77013

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Title compds. I [R1, R2, R3, R4, R5, R6 = (un)substituted alkylene-(LAG)n; n = 1-5; LAG = sugar; amino sugar; amino acid, etc.] and their pharmaceutically acceptable salts were prepared For example, N-alkylation of 1,4-diazabicyclo[2.2.2]octane with benzyl bromide II, e.g., prepared from 1-(4-fluorophenyl)-3-[3-(4-fluorophenyl)-3-hydroxypropyl]-4-(4-hydroxyphenyl)-2-azetidinone and 1,2-bisbromomethylbenzene, afforded diphenylazetidinone III. In rat liver chloresterol absorption assays, 26-examples of compds. I exhibited EC50 values ranging from 0.03-<1.0 (mg/mouse), e.g., the EC50 value of diphenylazetidinone III was 0.3. Compds. I are claimed useful for the treatment of hyperlipidemia, arteriosclerosis and hypercholesterolemia.

IT 640330-69-4P 641614-30-4P 641614-31-5P 641614-40-6P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(target compound; preparation of diphenylazetidinones for the treatment of hyperlipidemia, arteriosclerosis and hypercholesterolemia)

RN 640330-69-4 HCAPLUS CN Hexitol, 1-deoxy-1-[

Hexitol, 1-deoxy-1-[[4-[[4-[[4-[3-[3-(4-fluorophenyl)-3-hydroxypropyl]-2-(4-methoxyphenyl)-4-oxo-1-azetidinyl]phenyl]methyl]amino]carbonyl]phenyl]methyl]benzoyl]amino]- (9CI) (CA INDEX NAME)

PAGE 1-A

FOR
$$CH_2 - CH_2 - CH_$$

PAGE 1-B

RN 641614-30-4 HCAPLUS

CN D-Glucitol, 1-deoxy-1-[[4-[4-[[[4-[3-[3-(4-fluorophenyl)-3-hydroxypropyl]-2-(4-methoxyphenyl)-4-oxo-1-azetidinyl]phenyl]methyl]amino]carbonyl]phenox y]benzoyl]amino]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

OH N ŌН OH

PAGE 1-B

RN 641614-31-5 HCAPLUS ĊN

D-Glucitol, 1-deoxy-1-[[4-[4-[[[[4-[3-(3-hydroxy-3-phenylpropyl)-2-oxo-4phenyl-1-azetidinyl]phenyl]methyl]amino]carbonyl]phenoxy]benzoyl]amino]-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-B

RN 641614-40-6 HCAPLUS

CN fluorophenyl)-3-hydroxypropyl]-4-oxo-2-azetidinyl]phenyl]methyl]amino]carb onyl]benzoyl]amino]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-B

REFERENCE COUNT:

THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

HCAPLUS COPYRIGHT 2006 ACS on STN ANSWER 5 OF 6

3

ACCESSION NUMBER:

2002:487523 HCAPLUS

DOCUMENT NUMBER:

TITLE:

137:63113

Method for producing novel 1,2-diphenylazetidinones,

medicaments containing them, and their use for

treating disorders of lipid metabolism

INVENTOR(S):

Glombik, Heiner; Kramer, Werner; Flohr, Stefanie;

Frick, Wendelin; Heuer, Hubert; Jaehne, Gerhard; Lindenschmidt, Andreas; Schaefer, Hans-Ludwig

PATENT ASSIGNEE(S): Aventis Pharma Deutschland GmbH, Germany PCT Int. Appl., 77 pp.

SOURCE:

CODEN: PIXXD2

DOCUMENT TYPE:

Patent German

LANGUAGE:

GΙ

FAMILY ACC. NUM. COUNT: 1

PAT	PATENT NO.					KIND DATE			APPLICATION NO.								DATE			
										WO 2001-EP14531										
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OTHER SO	HER SOURCE(S):					REAC	T 13	7:63												

^{*} STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

The invention relates to the compds. I [R1, R2, R3, R4, R5, R6 =C0-30-alkylene-LAG (optionally containing O, CO, CH:CH, C.tplbond.C, N(C1-6-alkyl), N(CCO2H, CO2(C1-6-alkyl), CONH, CONH(C1-6-alkyl), CON(C1-6-alkyl)2, C1-6-alkyl, C1-6-alkenyl, C1-6-alkynyl, O-(C1-6-alkyl), SO2NH2, SO2NH(C1-6-alkyl) SO2N(C1-6-alkyl)2, S-(C1-6-alkyl), SO(C1-6-alkyl), (un) substituted S(CH2) nPh, SO(CH2) nPh, SO2(C1-6-alkyl), SO2(CH2) nPh, NH2, NH(C1-6-alkyl), N(C1-6-alkyl)2, NH(C1-6-acyl), (un)substituted Ph, O(CH2)nPh; LAG = sugar residue, di-, tri-, tetrasaccharide, carbohydrate

acid, amino sugar, amino acid, oligopeptide (2 - 9 residues), (trialkylammonium)alkyl, OSO3H] and to their physiol. acceptable salts, suitable, for example, as hypolipidemics. Thus, 1,2-diphenylazetidinone II [R10 = CO(CH2)11NHCO(CHOH)4CH2OH] was prepared from (methoxyphenyl)azetidinone II (R10 = H) via N-acylation with 12-[(2,3,4,5,6-pentahydroxyhexanoyl)amino]dodecanoic acid. Azetidinone II was tested for its cholesterol lowering ability [ED50 = 0.003 mg/mouse]. 439080-89-4P 439080-95-2P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of novel 1,2-diphenylazetidinones as hypolipidemics) 439080-89-4 HCAPLUS

CN Hexitol, 1-deoxy-1-[[6-[4-[1-(4-fluorophenyl)-3-[3-(4-fluorophenyl)-3-hydroxypropyl]-4-oxo-2-azetidinyl]phenyl]-1-oxo-5-hexenyl]methylamino]-(9CI) (CA INDEX NAME)

RN 439080-95-2 HCAPLUS

IT

RN

CN Hexitol, 1-deoxy-1-[[6-[4-[3-[1-(4-fluorophenyl)-2-(4-methoxyphenyl)-4-oxo-3-azetidinyl]-1-hydroxypropyl]phenyl]-1-oxo-5-hexenyl]methylamino]- (9CI) (CA INDEX NAME)

PAGE 1-A

PAGE 1-B

IT 439080-88-3P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of novel 1,2-diphenylazetidinones as hypolipidemics)

RN 439080-88-3 HCAPLUS

CN Hexitol, 1-deoxy-1-[[6-[4-[3-[3-[[(1,1-dimethylethyl)dimethylsilyl]oxy]-3-(4-fluorophenyl)propyl]-1-(4-fluorophenyl)-4-oxo-2-azetidinyl]phenyl]-1-oxo-5-hexenyl]methylamino]- (9CI) (CA INDEX NAME)

REFERENCE COUNT:

THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 6 OF 6 HCAPLUS COPYRIGHT 2006 ACS on STN

8

ACCESSION NUMBER:

2000:337121 HCAPLUS

DOCUMENT NUMBER:

133:135519

TITLE:

Synthesis of a new chiral oxazolidinone auxiliary

based on D-xylose and its application to the

Staudinger reaction

AUTHOR(S):

Saul, Robert; Kopf, Jurgen; Koll, Peter

CORPORATE SOURCE: Department of Chemistry, University of Oldenburg,

Oldenburg, D-26111, Germany

SOURCE:

Tetrahedron: Asymmetry (2000), 11(2), 423-433

CODEN: TASYE3; ISSN: 0957-4166

PUBLISHER:

Elsevier Science Ltd.

DOCUMENT TYPE:

Journal

LANGUAGE:

English

OTHER SOURCE(S):

CASREACT 133:135519

The synthesis of a new chiral oxazolidinone auxiliary based on D-xylose is described which is employed in diastereoselective Staudinger-type β -lactam syntheses. Using 2-chloro-1-methylpyridinium iodide as the dehydrating reagent, the reaction of auxiliary tethered acetic acid with acyclic or cyclic imines gave the desired β -lactams in good yields with excellent cis- or trans-selectivity depending on the geometry of the imine. X-Ray structure determination of one of the obtained compds. corroborated

the absolute configuration for all cis products.

286435-80-1P IT

> RL: SPN (Synthetic preparation); PREP (Preparation) (synthesis of a new chiral oxazolidinone auxiliary based on D-xylose and its application to the Staudinger reaction)

RN 286435-80-1 HCAPLUS

CN Furo[2,3-d]oxazol-2(3H)-one, tetrahydro-6-methoxy-5-(methoxymethyl)-3-[(3S, 4R) - 1 - (4-methoxyphenyl) - 2-oxo-4-phenyl - 3-azetidinyl] -,(3aS, 5R, 6S, 6aR) - (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

REFERENCE COUNT: 59 THERE ARE 59 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> fil beilstein

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FILE LAST UPDATED ON JANUARY 17, 2006

FILE COVERS 1771 TO 2005.

*** FILE CONTAINS 9,428,406 SUBSTANCES ***

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between a BEILSTEIN compound and belonging reactions. For mo detailed reaction searches BRNs can be searched as reaction partner BRNs Reactant BRN (RX.RBRN) or Product BRN (RX.PBRN).

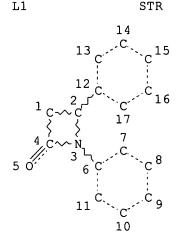
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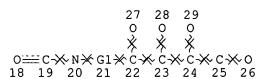
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- * ARE BASED ON THE HIGHEST PRICE CATEGORY. THEREFORE; THESE

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REP G1=(1-3) C NODE ATTRIBUTES: DEFAULT MLEVEL IS ATOM DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES: RING(S) ARE ISOLATED OR EMBEDDED NUMBER OF NODES IS 29

STEREO ATTRIBUTES: NONE

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L6 1 SEA FILE=BEILSTEIN ABB=ON PLU=ON L5/COM

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L6 ANSWER 1 OF 1 BEILSTEIN COPYRIGHT 2006 BEILSTEIN MDL on STN

Beilstein Records (BRN): 8586283

Chemical Name (CN): 1-N-<cis-(3'S, 4'R)-2'-oxo-4'-phenyl-1'-(pmethoxyphenyl)-3'-azetidinyl>-1-N,2-Ocarbonyl-3,5-di-O-methyl- α -Dxylofuranosylamine 6-methoxy-5-methoxymethyl-3-<1-(4-methoxy-Autonom Name (AUN): phenyl)-2-oxo-4-phenyl-azetidin-3-yl>tetrahydro-furo<2,3-d>oxazol-2-one Molec. Formula (MF): C24 H26 N2 O7 Molecular Weight (MW): 454.48 Lawson Number (LN): 31877, 27709, 14892, 289 File Segment (FS): Stereo compound Compound Type (CTYPE): heterocyclic Constitution ID (CONSID): 7271356 Tautomer ID (TAUTID): 8075597 2000/10/24 Entry Date (DED): Update Date (DUPD): 2000/10/24

Field Availability:

Code	Name	Occurrence
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AUN	Autonomname	1
MF	Molecular Formula	1
FW	Formular Weight	1
LN	Lawson Number	4
FS	File Segment	1
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
DED	Entry Date	1
DUPD	Update Date	1
MP	Melting Point	1
NMR	Nuclear Magnetic Resonance	3
ORP	Optical Rotatory Power	1

This substance also occurs in Reaction Documents:

Berch 10/813,954

Code	Name	Occurrence
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RX	Reaction Documents	1
RXPRO	Substance is Reaction Product	1

All References:

ALLREF

1. Saul, Robert; Kopf, Juergen; Koell, Peter, Tetrahedron: Asymmetry, CODEN: TASYE3, 11(2), <2000>, 423 - 434; BABS-6242731

=> fil marpat FILE 'MARPAT' ENTERED AT 09:45:42 ON 02 FEB 2006 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2006 American Chemical Society (ACS)

FILE CONTENT: 1969-PRESENT (VOL 144 ISS 5 (20060127/ED)

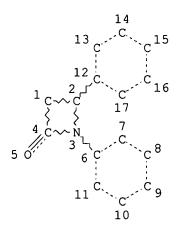
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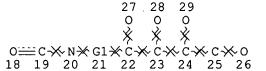
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US 6962795 08 NOV 2005
DE 1020040544 17 NOV 2005
EP 1595877 16 NOV 2005
JP 2005328067 24 NOV 2005
WO 2005112644 01 DEC 2005

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REP G1=(1-3) C NODE ATTRIBUTES: DEFAULT MLEVEL IS ATOM DEFAULT ECLEVEL IS LIMITED GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

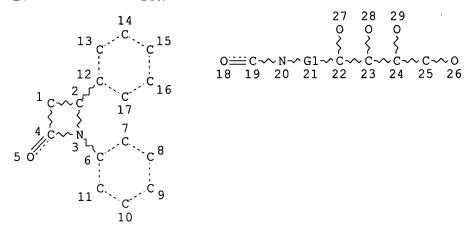
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L4 6 SEA FILE=HCAPLUS ABB=ON PLU=ON L3

L7 STR



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GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 29

STEREO ATTRIBUTES: NONE

L9 3 SEA FILE=MARPAT SSS FUL L7

L10 2 SEA FILE=MARPAT ABB=ON PLU=ON L9/COM L11 0 SEA FILE=MARPAT ABB=ON PLU=ON L10 NOT L4